HIGH SURF RD.
MANION DRIVE
OCEAN DRIVE
NEACOXIE CREEK
PACIFIC OCEAN
PACIFIC WAY
DEL REY BEACH ACCESS
WATER SURFACE ELEVATION AT SUNSET LAKE BRIDGE AS OF 8/17/98 11.6'
LOW AREA AT HIGH SURF ROAD
ELEVATIONS AS FOLLOWS
LOW GROUND IN WETLAND NORTH OF ROAD 14.6'
WATER SURFACE NORTH OF ROAD 23.1'
APPARENT HIGH WATER NORTH OF ROAD 24.6'
WATER SURFACE SOUTH OF ROAD 21.8'
LOW GROUND IN WETLAND SOUTH OF ROAD 17.3'
WATER SURFACE ELEVATION AS OF 8/17/98
31 32
28 33
N
SCALE:
1" = 400'
LEGEND
XXX.X INDICATES SPOT ELEVATION
INDICATES BENCHMARK
NOTE: PROPERTY LINES ARE APPROXIMATELY
AREA OF CONCERN, ANGLE POINT IN OCEAN DRIVE
ELEVATIONS AS FOLLOWS
PK NAIL SET AT HIGH WATER MARK 24.6'
LOW SPOT IN WETLAND NORTHWEST OF INTERSECTION 18.1'
ELEVATION AT BOTTOM OF EXCAVATED TROUGH FOR WATER PUMP
WATER SURFACE ELEVATION AS OF 8/17/98 13.4'
34" DIAMETER CMP AT NEACOXIE CR. L=80.8'
SLOPE = 1.85% ELEVATIONS AS FOLLOWS
LOW POINT OF CHANNEL AT INVERT IN 11.0'
INVERT IN 12.1'
CENTERLINE OF ROAD 20.7'
INVERT OUT 11.1'
LOWPOINT OF CHANNEL AT OUTLET 8.3'
BENCHMARK "CONDUIT RESET" ELEVATION 66.0'
APPARENT HIGH WATER
PAVED SURFACE
DETAIL
NOT TO SCALE
18" CMP AT DEL REY BEACH ACCESS
SLOPE = 0 ELEVATIONS AS FOLLOWS
GROUND 10' NORTH OF INLET 24.8'
INVERT IN 24.7'
CENTERLINE OF ASPHALT 48.65'
INVERT OUT 24.7'
GROUND 15' SOUTH OF OUTLET 24.8'
GROUND 80' SOUTH OF OUTLET 24.3'

ALTERNATIVE SUMMARY

ALTERNATIVE	ESTIMATED COST
1-GRAVITY DRAINAGE SYSTEM	410,300
2-ELEVATE ROAD	466,034
3A1-PUMPING SYSTEM (SURFACE WATER)	NOT YET DETERMINED
3B1-PUMPING SYSTEM (GROUND WATER)	NOT YET DETERMINED

ELEVATION DATUM

ALL ELEVATIONS ARE BASED ON THE NGVD 29 DATUM

BENCHMARK IS A US COAST AND GEODETIC SURVEY TRIANGULATION STATION DESIGNATED "CONDUIT RESET". WHICH IS A BRASS DISK SET IN CONCRETE APPROXIMATELY 500 FEET SOUTH OF SURF PINES ROAD ON THE TOP OF THE FIRST DUNE WEST OF HIGHWAY 101

PRELIMINARY

SHEET 1 OF 1

SURF PINES HOMEOWNERS ASSOCIATION

INTER-DUNE FLOODING MITIGATION FEASIBILITY STUDY

WARRENTON, OR

HLB & Associates
INCORPORATED
Surveying • Engineering • Planning

TILLAMOOK COUNTY
160 LANEDA AVE.
MANZANITA, OR 97130
(503) 368-5394
FAX: (503) 368-5847

CLATSOP COUNTY
4253A HWY 101 N.
GEARHART, OR 97138
(503) 738-3425
FAX: (503) 738-7455